

Wireless Activity Monitor - **WAM-X25**



Cellular 2G/3G/4G/5G - 2.4GHz/5GHz Wi-Fi/Bluetooth
Wideband 0-14 GHz - Wi-Fi Network & Bluetooth Analyser
Direction Find Function



FEATURES

- Detects 2G/3G/4G and the latest 5G devices - plus Wi-Fi/Bluetooth/2.4GHz & 5GHz Devices
- Detects Mobile Phones, Smartphones, GPS Trackers, SMS (Texts), GSM Bugs, 3G/4G/5G Video, Bluetooth & Wi-Fi Devices, Store & Forward devices
- Worldwide Cellular Coverage - Simply select the relevant region of use
- Separate Wideband RF Detector 0-14 GHz
- Separate 2.4GHz & 5GHz Wi-Fi Detector
- Wi-Fi Network Analyser provides data on nearby WLAN networks
- Bluetooth Device Analyser provides data on nearby Bluetooth devices.
- Direction Find Function for pin-pointing signal sources
- Event Log records Time/Date, Band, Duration & Signal Strength of up to 10,000 Events
- Log can be viewed on screen or saved to USB stick for storage/viewing on a computer
- Graph Mode plots real time or historical graph of all detected cellular bands
- Widescreen High Resolution 7-inch Colour TFT Display
- Adjustable hinged antennas
- Machined aluminium enclosure for maximum durability

The **WAM-X25** Wireless Activity Monitor is a compact tablet-style, multi-band Radio Frequency (RF) signal detector for handheld or desktop use. It is designed for detection and logging of transmissions from all types of radio frequency devices. The WAM-X25 provides complete coverage and logging of all RF activity in the surrounding area.



Wideband Detection

The 0-14 GHz Wideband detector provides the highest range of coverage of all RF activity in the target area. The frequency of the detected signal (up to 6GHz) can be seen simultaneously and the 'Livescan' software shows the detected live signal pattern graphically to help identify the signal type. This can be particularly useful when searching for pulsing or burst devices such as GPS trackers.



Worldwide Cellular Band Detection

The WAM-X5 has separate Worldwide multiband Cellular coverage. Simply select the international region the device is being used in and the WAM-X25 will detect signals from all the relevant local cellular bands. This means the WAM-X25 is ready for the rollout of the latest 5G devices, worldwide. Of course, all existing 2G, 3G and 4G bands will also be covered. It can be used in any environment where cellular devices are forbidden such as sensitive meeting rooms to check for hidden devices, unauthorised mobile phone usage in offices, exam halls, hospitals, or prisons and in vehicles to locate the latest Vehicle/Asset tracking devices. All cellular activity is logged and can be reviewed at a at any time, graphically or in list format.

2.4 GHz & 5GHz Wi-Fi Detection

The WAM-X25 has a separate 2.4 GHz & 5 GHz bands for detecting the rapidly growing threat from Wi-Fi/Bluetooth/Video and other latest generation 'Store & Forward' devices. Such devices can for example, record audio over long periods and then transmit it in short regular bursts. It will also detect other devices that use these bands such as covert wireless video transmitters.

Wi-Fi Network Analyser

The WAM-X25 features a new Independent Wi-Fi Network (2.4 & 5GHz) Analyser to provide detailed activity information about WLAN networks in the surrounding area such as Hotspots, Routers, Wi-Fi cameras etc. The device will scan through detected Wi-Fi Access Points/Clients and compile a detailed list of information: Date & Time of Event, Wi-Fi MAC Address, Manufacturer (If available), Type (Access point or Client), Number of Data Packets detected, Wi-Fi SSID (If available) and band (2.4 or 5 GHz)

Date	Time	WiFi MAC Add	Manufacturer	Type	Pkt	WiFi - SSID	2.4/5
02:02:21	11:29:01	8020DAF1898A	Sagemcom Bro	AP	06	Progression	2.4
02:02:21	11:29:01	8220DAF18B8B		AP	08	BTWi-fi	2.4
02:02:21	11:29:01	B8E9378F4233	Sonos	Client	42	HHID_t0aHx59QT4f	2.4
02:02:21	11:28:52	8220DAF18A88		AP	69	BTWi-fi	5.0
02:02:21	11:28:52	8020DAF1898B	Sagemcom Bro	AP	54	Progression	5.0
02:02:21	11:28:43	F4F26DA58048	TP-Link Tech	AP	943	TP-LINK_A58048	2.4
02:02:21	11:28:43	109ADDA19232	Apple	Client	48		2.4
02:02:21	11:28:43	C23BAFE630DF		Client	79		2.4
02:02:21	11:28:43	828EA07DFBB2		Client	58		2.4
02:02:21	11:28:43	A483E742E7E0	Apple	Client	08		2.4
02:02:21	11:28:35	8220DAF18A89		AP	40	BTWifi-X	5.0
02:02:21	11:28:10	7C70BC59B86C	leee Registr	Client	22		2.4
02:02:21	11:26:11	FEDE7A0F90F9		Client	02		2.4
02:02:21	11:25:54	6ADB7756FF96		AP	69	Justin's iPhone	2.4
02:02:21	11:25:21	CEE431137AFE		Client	31		2.4
02:02:21	11:25:21	807215EB34EA	BSkyB Ltd	Client	01	NOWTVXH6FA	2.4

Scanning WiFi Channel: 1 Next channel in 1 seconds.

CLEAR LIST SCAN ACCESS POINTS SCAN ALL DEVICES SCAN FOR CLIENTS ORDER BY TIME ORDER BY PACKETS



Bluetooth Device Analyser

The WAM-X25 also features a built-in Bluetooth analyser to list nearby active Bluetooth devices such as Smartphones, Tablets, headphones, fitness trackers etc. Information gathered includes: Date & Time of Event, Bluetooth MAC Address, Manufacturer (If available), Signal Strength in dBm and number of Data Packets detected,

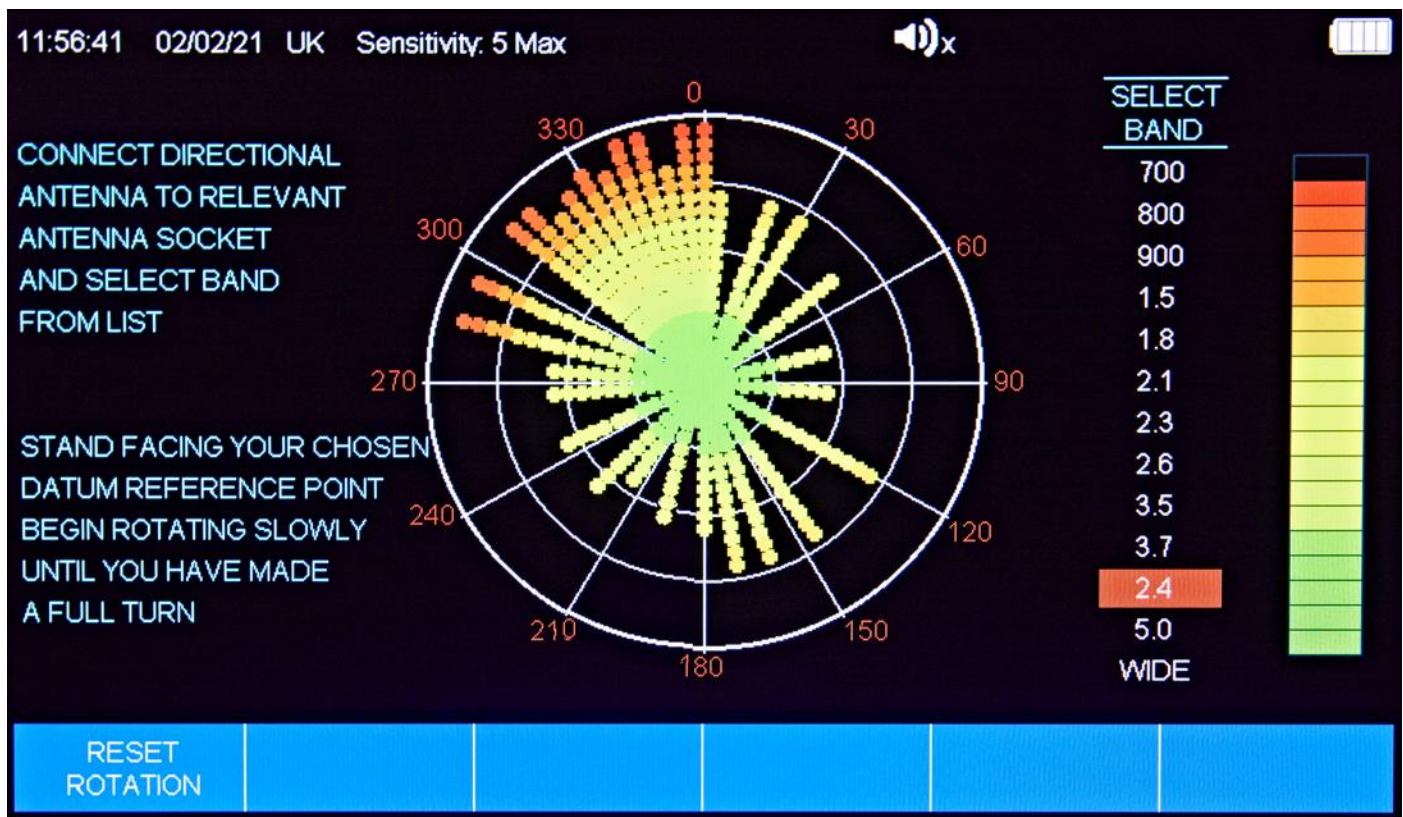
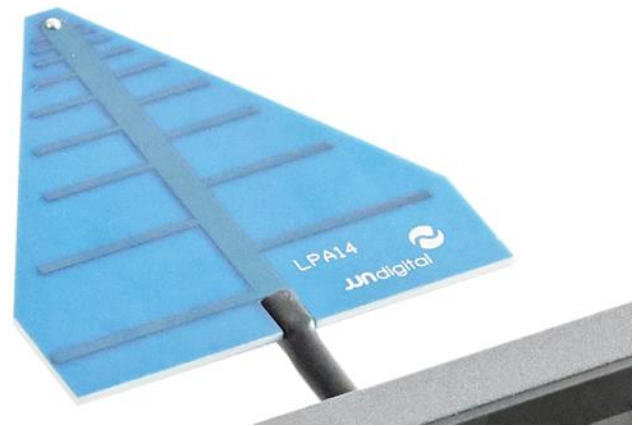
Date	Time	BT MAC Add	Manufacturer	Str.	Pkt
02:02:21	11:34:45	728EFADC8F85		-71	135
02:02:21	11:34:45	43B4FB BBBEEF		-56	59
02:02:21	11:34:45	7DF9276FFF2E		-63	20
02:02:21	11:34:45	52457D316B93		-60	25
02:02:21	11:34:33	A483E720BDF0	Apple	-58	18
02:02:21	11:32:08	43E5B2845670		-60	24
02:02:21	11:31:55	44520D600759		-55	37
02:02:21	11:30:55	6135D2F48BFE		-61	35
02:02:21	11:30:19	5D9D9D0EFDE6		-92	05

Scanning for Bluetooth Devices. New scan in 5 seconds.

CLEAR LIST ORDER BY TIME ORDER BY PACKETS

Direction Find Function:

The new direction find mode enables the user to locate the source of a detected RF signal by rotating the WAM-X25 through 360 degrees using the supplied directional antenna. By slowly rotating the unit, signal strength information is gathered and plotted graphically over 360 degrees to give the user an accurate indication of the detected signal source.



A new keypad design means operation is simple and intuitive. All information is displayed on a high resolution colour 7-inch TFT screen that allows the user to simultaneously perform real time detection and to view events that have previously occurred. Each band has an individual 20



element signal strength meter enabling the precise source of a detected signal to be located with ease. An audible 'Beep' mode allows the user to monitor without looking at the display and a silent Vibrate mode can also be used for particularly sensitive areas.

Up to 10,000 events can be stored within the WAM-X25 for viewing simultaneously as a list or graphically. For each detected signal (no matter how long or short) it will record the Time/Date, Duration, Band detected and Signal strength. This can be particularly useful in identifying the type of device that is being detected. For example: a string of regular short bursts in one particular band may represent those from a GSM/GPS Tracking device. These could be clearly viewed in Graph Mode as lines of regular spacing representing the pulsing nature of the transmission. Also by looking at call activity at certain times of the day may help identify unauthorised phone use in sensitive areas such as prisons, company board rooms, exam halls, etc. The entire event log can also be downloaded to a USB stick for storage or transfer to a computer where it can be viewed/sorted for analysis or reporting.

The WAM-X25 is designed and manufactured in the UK to the highest specification and is enclosed in customised machined aircraft-grade aluminium enclosure. It uses an integral Lithium-Polymer battery pack and is supplied with an international charger. The complete system is supplied in a compact heavy-duty military standard carry case for ultimate protection.



SUPPLIED IN PACKAGE

WAM-X25 - Main Unit

Adjustable hinged antenna x 2

Directional Antenna LPA-14-SMA (Blue)

5V Micro USB Charger-110V to 240V AC input (Auto Switching) with International Adaptors

Earphones

USB Memory Stick

High Protection Military Standard Carry Case

TECHNICAL SPECIFICATION

Typical Performance Characteristics - at 20 degrees C

Wideband Frequency Range	10MHz – 14000MHz (14.0GHz)
Cellular Regions covered	UK, EUROPE, ASIA, AFRICA, NORTH AMERICA, SOUTH AMERICA, AUSTRALIA
Cellular Frequency Range	International bands - (300 MHz to 6 GHz) – Maximum 10 viewable bands - Sensitivity -70 dBm Max
2.4 & 5 GHz Frequency Range	2400 to 2485 MHz & 5150 to 5850 MHz
Wi-Fi Analyser	802.11a/b/g/n: 2.4 GHz and 5 GHz
Display	TFT Colour 7.0" High Contrast Graphic Display
Battery	Internal Lithium-Polymer rechargeable Operating duration – fully charged battery – up to 8 hours
Charging	Micro USB socket - Charge Time ~ 4 hours
Operating Temperature Range	-15 to +50 degrees C - Relative Humidity < 90%
Dimensions	230 mm x 150 mm x 28 mm
Weight	Main Unit – 1.0 kg Carry Case Complete – 2.7 Kg
Signal Processing and Control	RISC Based Microcontroller with real time clock
Event Log	Maximum 10000 Events
USB Socket	For USB Stick download only

MADE IN ENGLAND